

C1
3. (Amended) The apparatus as claimed in Claim 20 further comprising a second drive mechanism connected to drive said roller.

4. (Amended) The apparatus as claimed in Claim 20 wherein said manifold has a plurality of inlets extending into said interior portion.

C2
6. (Twice Amended) The apparatus as claimed in Claim 20 wherein said manifold is removably mountable from adjacent said endless belt so that more than one type of manifold may be interchangeably mounted adjacent said endless belt.

8. (Amended) The manifold as claimed in Claim 21 wherein said roller comprises a stainless steel cylinder, and
a plastic sleeve that is shrunk on to said cylinder.

C3
9. (Amended) The manifold as claimed in Claim 21 further comprising a drive mechanism connected to drive said roller.

10. (Amended) The manifold as claimed in Claim 21 wherein said chamber has a plurality of inlets extending into said interior portion.

12. (Amended) The manifold as claimed in Claim 21 wherein said roller is set a fixed distance from the casting belt and a space is formed between a surface of the roller and the casting belt.

C4
13. (Amended) The manifold as claimed in Claim 21 wherein said fixed distance from the casting belt determines the final sheet thickness of said material.

14. (Amended) The manifold as claimed in Claim 21 wherein the tandem movement of said roller and said casting belt draws the starting material from said manifold.

15. (Amended) The manifold as claimed in Claim 21 wherein said manifold is removable so that more than one type of manifold may be interchangeably mounted in said mounting area.

17. (Amended) An apparatus for forming a continuous sheet from a molten, viscous cheese material comprising:

a pump providing a pressure of at least 1 psi to said molten, viscous cheese material exiting said pump so as to facilitate uniform transfer of said material to an inlet;

a discharge manifold comprising a roller and a hollow interior chamber, said chamber having at least one inlet for receiving said molten, viscous cheese material from said pump and a discharge opening on at least one side for discharging said molten, viscous cheese material;

a casting line positioned downstream of said discharge manifold and comprising an endless casting belt that transports said molten, viscous cheese material upon said casting belt;

CS said endless casting belt mounted adjacent to said manifold, said belt facing said discharge opening, said roller rotatably mounted adjacent said endless belt to form a gap between an outer surface of said roller and the surface of said belt and said manifold disposed such that said molten, viscous cheese material is received in said gap from said discharge opening, said belt being revolving driven such that said molten, viscous cheese material passes between said gap to form said continuous sheet of molten, viscous cheese material therebetween, wherein said molten, viscous cheese material cools on said belt; and

a first drive mechanism connected to said belt for causing said belt to revolve.

18. (Amended) A manifold for forming a continuous sheet from a molten, viscous cheese material upon a casting belt of a casting line moving in a first direction, said manifold comprising:

a roller positioned such that a longitudinal axis of said roller is perpendicular to the first direction of said casting belt;

said casting line positioned downstream of said manifold for transporting said molten, viscous cheese material upon said casting belt, wherein said molten, viscous cheese material cools on said belt;

a chamber, having an interior portion, disposed adjacent to said roller;

said chamber having top, bottom, end, upstream and downstream face plates;

said bottom face open to the casting belt along at least a part of the length of said bottom face;

said downstream face open to the roller along at least a part of the length of said downstream face;

said top face having at least one inlet;

said manifold being removably mountable ~~mounted~~ adjacent said casting belt in at least one mounting area.

19. (Amended) A method for forming a thin continuous sheet of material from a molten, viscous cheese starting material comprising the steps of:

- CS
- a. driving a casting belt of a casting line in a constant direction;
 - b. introducing said molten, viscous cheese starting material under a pressure of at least 1 psi through at least one inlet into a chamber of a manifold mounted in an area so that the manifold sits adjacent to the casting belt at a fixed distance and disposes said molten, viscous cheese starting material onto said casting belt through an outlet;
 - c. driving a roller in the same direction as said casting belt, said roller being attached to said manifold downstream of said outlet and above said outlet such that said molten, viscous cheese starting material passes between said roller and said belt;
 - d. drawing the molten, viscous cheese starting material from said chamber under pressure through the tandem movement of the roller and the casting belt in the same direction;
 - e. dispensing a continuous sheet of material upon the casting belt as the belt is revolvingly driven; and
 - f. cooling said continuous sheet of material on said casting belt.

20. (Amended) An apparatus for forming a continuous sheet from a molten, viscous material comprising:

a pump providing a pressure for molten, viscous material so as facilitate uniform transfer of said material to an inlet;

a discharge manifold comprising a roller and a hollow interior chamber, said chamber having at least one inlet for receiving said molten, viscous material from said pump and a discharge opening on at least one side for discharging said molten, viscous material under pressure;

a casting line positioned downstream of said discharge manifold comprising an endless casting belt that transports said molten, viscous material upon said casting belt, said endless casting belt having a width;

CB / said endless casting belt mounted adjacent to said manifold, said belt facing said discharge opening, said roller rotatably mounted adjacent said endless belt to form a gap between an outer surface of said roller and the surface of said belt and said manifold disposed such that said molten, viscous material is received in said gap from said discharge opening, said belt being revolving driven such that said molten, viscous material passes between said gap, said pump providing sufficient pressure to said molten, viscous material to form a continuous sheet of molten, viscous material therebetween evenly distributed across said width of said belt, wherein said molten, viscous material cools on said belt; and

a first drive mechanism connected to said belt for causing said belt to revolve.

21. (Amended) A manifold for forming a continuous sheet from a molten, viscous material exiting the manifold under pressure upon a casting belt of a casting line moving in a first direction, said manifold comprising:

a roller positioned such that a longitudinal axis of said roller is perpendicular to the first direction of casting belt;

said casting line positioned downstream of said manifold for transporting said molten, viscous material upon said casting belt, wherein said molten, viscous material cools on said belt;

a chamber, having an interior portion, disposed adjacent to said roller; said chamber having top, bottom, end, upstream and downstream face plates;

said bottom face open to the casting belt along at least a part of the length of said bottom face;

said downstream face open to the roller along at least a part of the length of said downstream face;

said top face having at least one inlet;

said manifold being removably mountable mounted adjacent said casting belt in at least one mounting area.

22. (Amended) A method for forming a thin continuous sheet of material from a molten, viscous starting material comprising the steps of.

CS a. driving a casting belt of a casting line in a constant direction, said casting belt having a width;

b. introducing said starting material under pressure through at least one inlet into a chamber of a manifold mounted in an area so that the manifold sits adjacent to the casting belt at a fixed distance and disposes said starting material onto said casting belt through an outlet;

c. driving a roller in the same direction as said casting belt, said roller being attached to said manifold downstream of said outlet and above said outlet such that said starting material passes between said roller and said belt;

d. drawing the starting material from said chamber through the tandem movement of the roller and the casting belt in the same direction;

e. dispensing a continuous sheet of material under sufficient pressure upon the casting belt as the belt is revolvingly driven to evenly distribute the sheet of material across said width of the belt; and

f. cooling said continuous sheet of material on said casting belt.

Please add new claims 23-27:

23. (New) An apparatus for forming a continuous sheet from a molten, viscous material comprising:

CB a pump connected to a line comprising a valve to regulate the flow of said molten, viscous material under pressure to an inlet;

a pressurized discharge manifold, said manifold comprising a roller and a hollow interior chamber, said chamber having at least one inlet for receiving said molten, viscous material under pressure from said pump and a discharge opening on at least one side for discharging said molten, viscous material under pressure;

a casting line positioned downstream of said discharge manifold and comprising an endless casting belt that transports said molten, viscous material upon said casting belt;

CF said endless casting belt mounted adjacent said manifold, said belt facing said discharge opening, said roller rotatably mounted adjacent said endless belt to form a gap between an outer surface of said roller and the surface of said belt and said manifold disposed such that said molten, viscous material is received in said gap from said discharge opening, said belt being revolving driven such that said molten, viscous material passes between said gap to form said continuous sheet of molten, viscous material therebetween, wherein said molten, viscous material cools on said belt; and

a first drive mechanism connected to said belt for causing said belt to revolve.

24. (New) The apparatus as claimed in Claim 23 wherein said roller comprises a stainless steel cylinder; and a plastic sleeve that is shrunk on to said cylinder.

25. (New) The apparatus as claimed in Claim 23 further comprising a second drive mechanism connected to drive said roller.

26. (New) The apparatus as claimed in Claim 23 wherein said manifold has a plurality of inlets extending into said interior portion.

27. (New) The apparatus as claimed in Claim 23 wherein said manifold is removably mountable from adjacent said endless belt so that more than one type of manifold may be interchangeably mounted adjacent said endless belt.
